Exhibit B.

US6661783	Zonar V4 Telematic Control Unit ("The accused product")		
4. A CDMA mobile communication method, when performing asymmetric communications, comprising:	The accused product practices a CDMA mobile communication. The accused product Zonar V4 Telematic Control Unit technology. ZONAR V4 Telematics Control Unit		
		TRACK asset location, odometer, fuel use	PERFORM driver and safety monitoring
	ZONAR V4	DIAGNOSE remote engine and system diagnostics	REDUCE costs with efficient asset deployment
	https://www.zonarsystems.com/wp-content/uploads/20	018/04/V4-Brochure.pd	<u>f</u>

Enables Smart Fleets of the Future

Gain insight, improve decision making and increase fleet safety with real-time access to critical data on speed, location, idle and diagnostic codes. The V4 is a unique Telematics Control Unit that can be deployed in light, medium and heavy-duty vehicles. Built-in LTE, 4G and 3G cellular radios remain compatible despite evolving network changes. Analyze your entire fleet with Zonar's Ground Traffic Control® solution or extend data to your ERP, TMS or other third-party soft ware using our API and custom integration services. The Anti-tamper feature sends out an immediate notification and location to reduce theft and protect against unauthorized interference. Deploy new functionality and additional sensors with Bluetooth® and 802.11 wireless connectivity.

High-precision Location Tracking

With GNSS positioning services, the V4 uses GPS, GLONASS, Galileo or BeiDou satellites to calculate your vehicles location. This provides you with precise location data that's accurate and available wherever your fleet operates.

Features and Capabilities

- High-definition GNSS Location Tracking
- Anti-tamper alert system
- Reliable LTE/4G/3G network
- Dynamic geo-fencing
- True idle, speed and odometer
- Bluetooth® 4.1
- 802.11b/g/n
- SAE J 1708/1587 and J1939 compatible
- 3-year warranty

https://www.zonarsystems.com/wp-content/uploads/2018/04/V4-Brochure.pdf

UMTS - It's not just about radio

UMTS is not just about radio: the radio access network connects to the core network which is an evolution from the GSM core. 3GPP has expanded its capabilities, in principle allowing most services to be delivered over either 2G GERAN (GSM/EDGE) or 3G UTRAN.

The core network is becoming progressively access-agnostic, allowing home base stations serving pica-cells to connect directly to the core network via subscribers' ASDL lines.

3GPP is now working on Long Term Evolution (LTE), which will build on UMTS, as the Industry looks beyond 3G.

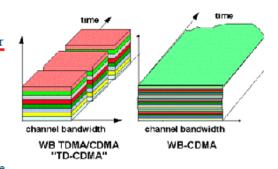
Just as GSM has become synonymous with the whole mobile system for 2G, <u>UMTS is 3G, which includes the whole</u> of the W-CDMA and HSPA specifications catalogue.

https://www.3gpp.org/technologies/keywords-acronyms/103-umts

WCDMA (UMTS)

Wideband Code-Division Multiple-Access (W-CDMA) is one of the main technologies for the implementation of third-generation (3G) cellular systems. It is base on radio access technique proposed by ETSI Alpha group and the specifications was finalised 1999.

The implementation of W-CDMA will be a technical challenge because of it's complexity and versatility. The complexity of W-CDMA systems can be viewed from different angles: the



complexity of each single algorithm, the complexity of the overall system and the computational complexity of a receiver. W-CDMA link-level simulations are over 10 times more compute-intensive than current second-generation simulations. In W-CDMA interface different users can simultaneously transmit at different data rates and data rates can even vary in time. UMTS networks need to support all current second generation services and numerous new applications and services.

FDD Technical summary

Frequency band: 1920 MHz -1980 MHz and 2110 MHz - 2170 MHz (Frequency Division

Duplex) UL and DL [more]

Minimum frequency band required: ~ 2x5MHz

Frequency re-use: 1

Carrier Spacing: 4.4MHz - 5.2 MHz

Maximum number of (voice) channels on 2x5MHz: ~196 (spreading factor 256 UL, AMR

7.95kbps) / ~98 (spreading factor 128 UL, AMR 12.2kbps)

Voice coding: AMR codecs (4.75 kHz - 12.2 kHz, GSM EFR=12.2 kHz) and SID (1.8 kHz)

Channel coding: Convolutional coding, Turbo code for high rate data Duplexer needed (190MHz separation), Asymmetric connection supported

https://www.umtsworld.com/technology/wcdma.htm

What is 3G UMTS: WCDMA Tutorial

3G UMTS using WCDMA technology is a third generation mobile telecommunications system run under the auspices of 3GPP providing mobile data connectivity & circuit switched voice.

3G UMTS includes:

What is UMTS Network architecture Radio access Radio interface Frequency bands UMTS CDMA Modulation Data channels UMTS TDD TD-SDCDMA Handover

UMTS - Universal Mobile Telecommunications System, is the 3G successor to the GSM family of standards including GPRS and EDGE.

3G UMTS uses a totally different radio interface based around the use of Direct Sequence Spread Spectrum as CDMA or Code Division Multiple Access.

Although 3G UMTS uses a totally different radio access standard, the core network is the same as that used for GPRS and EDGE to carry separate circuit switched voice and packet data.

UMTS uses a wideband version of CDMA occupying a 5 MHz wide channel. Being wider than its competition CDMA2000 which only used a 1.25MHz channel, the modulation scheme was known as wideband CDMA, or WCDMA / W-CDMA. This name was often used to refer to the whole system.

https://www.electronics-notes.com/articles/connectivity/3g-umts/what-is-umts-wcdma-tutorial.php

Ads by Amazon

3G UMTS capabilities

UMTS uses Wideband CDMA - WCDMA - as the radio transmission standard. It employs a 5 MHz channel bandwidth. Using this bandwidth it has the capacity to carry over 100 simultaneous voice calls, or it is able to carry data at speeds up to 2 Mbps in its original format. However with the later enhancements of HSDPA and HSUPA (described in other articles accessible from the cellular telecommunications menu page) included in later releases of the standard the data transmission speeds have been increased to 14.4 Mbps.

Many of the ideas that were incorporated into GSM have been carried over and enhanced for UMTS. Elements such as the SIM have been transformed into a far more powerful USIM (Universal SIM). In addition to this, the network has been designed so that the enhancements employed for GPRS and EDGE can be used for UMTS. In this way the investment required is kept to a minimum.

A new introduction for UMTS is that there are specifications that allow both Frequency Division Duplex (FDD) and Time Division Duplex (TDD) modes. The first modes to be employed are FDD modes where the uplink and downlink are on different frequencies. The spacing between them is 190 MHz for Band 1 networks being currently used and rolled out.

https://www.electronics-notes.com/articles/connectivity/3g-umts/what-is-umts-wcdma-tutorial.php

3G UMTS / WCDMA technologies

There are several key areas of 3G UMTS / WCDMA. Within these there are several key technologies that have been employed to enable UMTS / WCDMA to provide a leap in performance over its 2G predecessors.

Some of these key areas include:

- Radio interface: The UMTS radio interface provides the basic definition of the radio signal. W-CDMA occupies
 5 MHz channels and has defined formats for elements such as synchronisation, power control and the like
- CDMA technology: 3G UMTS relies on a scheme known as CDMA or code divison multiple access to enable
 multiple handsets or user equipments to have access to the base station. Using a scheme known as direct
 sequence spread spectrum, different UEs have different codes and can all talk to the base station even
 though they are all on the same frequency
- UMTS network architecture: The architecture for a UMTS network was designed to enable packet data to be
 carried over the network, whilst still enabling it to support circuit switched voice. All the usual functions
 enabling access toth e network, roaming and the like are also supported.
- UMTS modulation schemes: Within the CDMA signal format, a variety of forms of modulation are used. These
 are typically forms of phase shift keying.
- UMTS channels: As with any cellular system, different data channels are required for passing payload data
 as well as control information and for enabling the required resources to be allocated. A variety of different
 data channels are used to enable these facilities to be accomplished.

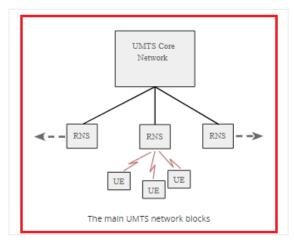
https://www.electronics-notes.com/articles/connectivity/3g-umts/network-architecture.php

3G UMTS network constituents

The UMTS network architecture can be divided into three main elements:

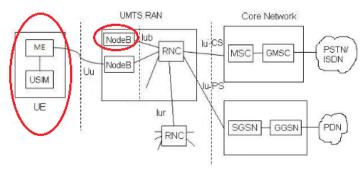
- User Equipment (UE): The User Equipment or UE is the name given to what was previous termed the mobile, or cellphone. The new name was chosen because the considerably greater functionality that the UE could have. It could also be anything between a mobile phone used for talking to a data terminal attached to a computer with no voice capability.
- <u>Radio Network Subsystem (RNS)</u>: The RNS also known as the UMTS Radio Access Network, UTRAN, is the
 equivalent of the previous Base Station Subsystem or BSS in GSM. It provides and manages the air interface
 fort he overall network.
- <u>Core Network:</u> The core network provides all the central processing and management for the system. It is
 the equivalent of the GSM Network Switching Subsystem or NSS.

The core network is then the overall entity that interfaces to external networks including the public phone network and other cellular telecommunications networks.



https://www.electronics-notes.com/articles/connectivity/3g-umts/network-architecture.php

UMTS Network Architecture



http://www.rfwireless-world.com/Tutorials/UMTS-Network-Architecture.html

As shown below, in the case of UMTS-FDD based communication, spreading factors range from 256 to 2 in the uplink direction and 512 to 4 in the downlink direction, thereby providing different symbols rates per second for uplink and downlink respectively.

4.2 General description of Layer 1

4.2.1 Multiple Access

The access scheme is Direct-Sequence Code Division Multiple Access (DS-CDMA) with information either spread over approximately 5 MHz (FDD and 3.84 Mcps TDD) bandwidth, thus also often denoted as Wideband CDMA (WCDMA) due that nature, 10MHz (7.68 Mcps TDD) bandwidth, or 1.6MHz (1.28Mcps TDD), thus also often denoted as Narrowband CDMA. UTRA has two modes, FDD (Frequency Division Duplex) & TDD (Time Division Duplex), for operating with paired and unpaired bands respectively. The possibility to operate in either FDD or TDD mode allows for efficient utilisation of the available spectrum according to the frequency allocation in different regions. FDD and TDD modes are defined as follows:

FDD: A duplex method whereby uplink and downlink transmissions use two separated radio frequencies. In the FDD, each uplink and downlink uses the different frequency band. A pair of frequency bands which have specified separation shall be assigned for the system.

TDD: A duplex method whereby uplink and downlink transmissions are carried over same radio frequency by using synchronised time intervals. In the TDD, time slots in a physical channel are divided into transmission and reception part. Information on uplink and downlink are transmitted reciprocally.

https://www.etsi.org/deliver/etsi TS/125200 125299/125201/07.03.00 60/ts 125201v070300p.pdf

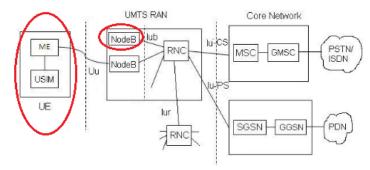
The information rate of the channel varies with the symbol rate being derived from the 3.84 Mcps chip rate and the spreading factor. Spreading factors are from 256 to 2 with FDD uplink, from 512 to 4 with FDD downlink, and from 16 to 1 for TDD uplink and downlink. Thus the respective modulation symbol rates vary from 1920 k symbols/s to 15 k symbols/s (7.5 k symbols/s) for FDD uplink (downlink), and for TDD the momentary modulation symbol rates shall vary from 3.84 M symbols/s to 240 k symbols/s.

https://www.etsi.org/deliver/etsi TS/125200 125299/125201/07.03.00 60/ts 125201v070300p.pdf

a base station apparatus spreading known reference signals and transmission power control bits by spreading codes with a length that is longer than spreading codes used for symmetric communications, and transmitting spreaded known reference signals and a spreaded transmission power control bits at a lower transmission rate than a transmission rate when symmetric communications are performed;

The accused product, at least in internal testing and usage, utilizes a base station (e.g., NodeB). The base station (e.g., NodeB) practices spreading known reference signals (e.g., RSCP signals) and transmission power control bits (e.g., bits of TPC_cmd) by spreading codes with a length that is longer than spreading codes used for symmetric communications, and transmitting spreaded known reference signals (e.g., RSCP signals) and a spreaded transmission power control bits (e.g., bits of TPC_cmd) at a lower transmission rate than a transmission rate when symmetric communications are performed.

UMTS Network Architecture



http://www.rfwireless-world.com/Tutorials/UMTS-Network-Architecture.html

For symmetric communication, the data rate (and its corresponding associated spreading factor) of the uplink and downlink are the same. They therefore have the same spreading factor whereas in case of asymmetric communication there is a difference in the uplink and downlink data rates (and its corresponding associated spreading factor) which will thereby process a higher spreading factor for downlink communication.

Higher the spreading code for downlink communication lower the data rate (e.g., code length or spreading factor of 4 gives data rate of 960 Kbits/sec whereas code length or spreading factor of 512 gives 7.5 Kbits/sec) therefore asymmetric communications, transmits known reference signals (e.g., RS signal) and transmission power control bits (e.g., TPC bits) at a lower transmission rate than a transmission rate when symmetric communications are performed.

The information rate of the channel varies with the symbol rate being derived from the 3.84 Mcps chip rate and the spreading factor. Spreading factors are from 256 to 2 with FDD uplink, from 512 to 4 with FDD downlink, and from 16 to 1 for TDD uplink and downlink. Thus the respective modulation symbol rates vary from 1920 k symbols/s to 15 k symbols/s (7.5 k symbols/s) for FDD uplink (downlink), and for TDD the momentary modulation symbol rates shall vary from 3.84 M symbols/s to 240 k symbols/s.

https://www.etsi.org/deliver/etsi TS/125200 125299/125201/07.03.00 60/ts 125201v070300p.pdf

5.1.1 CPICH RSCP

Definition	Received Signal Code Power, the received power on one code measured on the Primary CPICH. The reference point for the RSCP shall be the antenna connector of the UE. If Tx diversity is applied on the Primary CPICH the received code power from each antenna shall be separately measured and summed together in [W] to a total received code power on the Primary
	CPICH.
Applicable for	Idle,
	URA_PCH intra, URA_PCH inter,
	CELL_PCH intra, CELL_PCH inter,
	CELL_FACH intra, CELL_FACH inter,
	CELL_DCH intra, CELL_DCH inter

https://www.etsi.org/deliver/etsi_ts/125200_125299/125215/06.03.00_60/ts_125215v060300p.pdf

9.1 Measurement Performance for UE

The requirements in this clause are applicable for a UE:

- in state CELL_DCH and/or state CELL_FACH.
- performing measurements according to section 8.
- that is synchronised to the cell that is measured.

The reported measurement result after layer 1 filtering shall be an estimate of the average value of the measured quantity over the measurement period. The reference point for the measurement result after layer 1 filtering is referred to as point B in the measurement model described in TS25.302.

The accuracy requirements in this clause are valid for the reported measurement result after layer 1 filtering. The accuracy requirements are verified from the measurement report at point D in the measurement model having the layer 3 filtering disabled.

Note: It needs to be clarified how the accuracy requirements shall be handled when the UE is measuring on cells using IPDL.

9.1.1 CPICH RSCP

Note: This measurement is for handover evaluation, DL open loop power control, UL open loop power control and for the calculation of pathloss.

https://www.etsi.org/deliver/etsi_ts/125100_125199/125133/06.04.00_60/ts_125133v060400p.pdf

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document in the same Release as the present document.
- 3GPP TS 25.211: "Physical channels and mapping of transport channels onto physical channels (FDD)".
- [2] 3GPP TS 25.212: "Multiplexing and channel coding (FDD)".
- [3] 3GPP TS 25.213: "Spreading and modulation (FDD)".
- [4] 3GPP TS 25.214: "Physical layer procedures (FDD)".
- [5] 3GPP TS 25.215: "Physical layer Measurements (FDD)".
- [6] 3GPP TS 25.221: "Physical channels and mapping of transport channels onto physical channels (TDD)".

https://www.etsi.org/deliver/etsi TS/125200 125299/125201/07.03.00 60/ts 125201v070300p.pdf

5.6 TS 25.214: Physical layer procedures (FDD)

The scope is to establish the characteristics of the physical layer procedures in the FDD mode, and to specify:

- cell search procedures;
- power control procedures;
- random access procedure.

https://www.etsi.org/deliver/etsi_TS/125200_125299/125201/07.03.00_60/ts_125201v070300p.pdf

5.1.2.2.1.2 TPC command generation on downlink during RL initialisation

When commanded by higher layers the TPC commands sent on a downlink radio link from Node Bs that have not yet achieved uplink synchronisation shall follow a pattern as follows:

If higher layers indicate by "First RLS indicator" that the radio link is part of the first radio link set sent to the UE and the value 'n' obtained from the parameter "DL TPC pattern 01 count" passed by higher layers is different from 0 then:

- the TPC pattern shall consist of n instances of the pair of TPC commands ("0","1"), followed by one instance of TPC command "1", where ("0","1") indicates the TPC commands to be transmitted in 2 consecutive slots,
- the TPC pattern continuously repeat but shall be forcibly re-started at the beginning of each frame where CFN mod 4 = 0.

ETSI

3GPP TS 25.214 version 6.11.0 Release 6

16

ETSI TS 125 214 V6.11.0 (2006-12)

else

The TPC pattern shall consist only of TPC commands "1".

The TPC pattern shall terminate once uplink synchronisation is achieved.

. https://www.etsi.org/deliver/etsi_ts/125200_125299/125214/06.11.00_60/ts_125214v061100p.pdf

5.1.2.2.2.3 Combining of TPC commands from radio links of different radio link sets

This subclause describes the general scheme for combination of the TPC commands from radio links of different radio link sets.

First, the UE shall conduct a soft symbol decision W_i on each of the power control commands TPC_i, where i = 1, 2, ..., N, where N is greater than 1 and is the number of TPC commands from radio links of different radio link sets, that may be the result of a first phase of combination according to subclause 5.1.2.2.2.2.

Finally, the UE derives a combined TPC command, TPC cmd, as a function γ of all the N soft symbol decisions W_i:

TPC cmd = γ (W₁, W₂, ... W_N), where TPC cmd can take the values 1 or -1.

The function γ shall fulfil the following criteria:

If the N TPC_i commands are random and uncorrelated, with equal probability of being transmitted as "0" or "1", the probability that the output of γ is equal to 1 shall be greater than or equal to $1/(2^N)$, and the probability that the output of γ is equal to -1 shall be greater than or equal to 0.5. Further, the output of γ shall equal 1 if the TPC commands from all the radio link sets are reliably "1", and the output of γ shall equal -1 if a TPC command from any of the radio link sets is reliably "0".

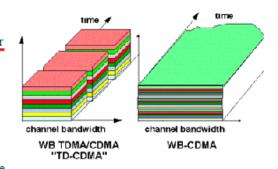
https://www.etsi.org/deliver/etsi ts/125200 125299/125214/06.11.00 60/ts 125214v061100p.pdf

The spreading code for the downlink of asymmetric communications and said longer spreading code is orthogonal to spreading codes used for other asymmetric communication lines (e.g., Orthogonal Variable Spreading Factor (OVSF) codes). In the FDD (Frequency Division Duplex) mode the spreading factors (e.g., spreading code length) are from 256 to 2 for uplink and from 512 to 4 for downlink.

WCDMA (UMTS)

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The implementation of W-CDMA will be a technical challenge because of it's complexity and versatility. The complexity of W-CDMA systems can be viewed from different angles: the



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FDD Technical summary

Frequency band: 1920 MHz -1980 MHz and 2110 MHz - 2170 MHz (Frequency Division

Duplex) UL and DL [more]

Minimum frequency band required: ~ 2x5MHz

Frequency re-use: 1

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Maximum number of (voice) channels on 2x5MHz: ~196 (spreading factor 256 UL, AMR

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Voice coding: AMR codecs (4.75 kHz - 12.2 kHz, GSM EFR=12.2 kHz) and SID (1.8 kHz)

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https://www.umtsworld.com/technology/wcdma.htm

	The information rate of the channel varies with the symbol rate being derived from the 3.84 Mcps chip rate and the spreading factor. Spreading factors are from 256 to 2 with FDD uplink, from 512 to 4 with FDD downlink, and from 16 to 1 for TDD uplink and downlink. Thus the respective modulation symbol rates vary from 1920 k symbols/s to 15 k symbols/s (7.5 k symbols/s) for FDD uplink (downlink), and for TDD the momentary modulation symbol rates shall vary from 3.84 M symbols/s to 240 k symbols/s. https://www.etsi.org/deliver/etsi_TS/125200_125299/125201/07.03.00_60/ts_125201v070300p.pdf	
a mobile station apparatus receiving said transmission power control bits; and	The accused product practices receiving said transmission power control bits (e.g., bits of TPC_cmd). 5.6 TS 25.214: Physical layer procedures (FDD) The scope is to establish the characteristics of the physical layer procedures in the FDD mode, and to specify: - cell search procedures; - power control procedures; - random access procedure. https://www.etsi.org/deliver/etsi_TS/125200_125299/125201/07.03.00_60/ts_125201v070300p.pdf	

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ETSI

3GPP TS 25.214 version 6.11.0 Release 6

16

ETSI TS 125 214 V6.11.0 (2006-12)

else

The TPC pattern shall consist only of TPC commands "1".

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. https://www.etsi.org/deliver/etsi_ts/125200_125299/125214/06.11.00_60/ts_125214v061100p.pdf

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	Transmission $\Delta_{DPCCH} = \Delta_{TPC} \times TPC_cmd + \Delta_{PILOT}$ Transmission $\Delta_{DPCCH} = \Delta_{TPC} \times TPC_cmd + \Delta_{PILOT}$ Transmission power control bits At the start of the first slot after an uplink or downlink transmission gap the UE shall apply a change in the transmit power of the uplink DPCCH by an amount Δ_{DPCCH} (in dB), with respect to the uplink DPCCH power in the most recently transmitted uplink slot, where:	
$\Delta_{ ext{DPCCH}} = \Delta_{ ext{RESUME}} + \Delta_{ ext{PILOT.}}$		
	https://www.etsi.org/deliver/etsi_ts/125200_125299/125214/06.11.00_60/ts_125214v061100p.pdf	
said mobile station apparatus determining transmission power	The accused product practices determining transmission power based on said transmission power control bits (e.g., bits of TPC_cmd).	